

PAGE 1 SUBNOD SRC

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APPROVED FOR REDAL 14 15/9/72

2 .TITLE SUBNOD  
3  
4 // THIS PROGRAM SOURCE FILE IS SUPPLIED IN CONFIDENCE TO THE  
5 // CUSTOMER: THE CONTENTS OR DETAILS OF ITS OPERATION MAY ONLY  
6 // BE DISCLOSED TO PERSONS EMPLOYED BY THE CUSTOMER WHO REQUIRE  
7 // A KNOWLEDGE OF THE SOFTWARE CODING TO CARRY OUT THEIR JOB.  
8 // DISCLOSURE TO ANY OTHER PERSON MUST HAVE THE PRIOR AUTHORISATION  
9 // FROM THE DIRECTORS OF REDAC SOFTWARE LIMITED.  
10 /  
11 .GLOBL SUBNOD .DA  
12 00000 R 000000 A COMPS .CBD COMPS 1  
13 00001 R 000000 A LIBRY .CBD LIBRY 1  
14 00002 R 740040 A SUBNOD XX  
15 00003 R 120151 E JMS\* .DA  
16 00004 R 600011 R JMP .+5  
17 00005 R 000000 A X1 0  
18 00006 R 000000 A Y1 0  
19 00007 R 000000 A COMPTR 0  
20 00010 R 000000 A NOD 0  
21 00011 R 220000 R LAC\* COMPS  
22 00012 R 040144 R DAC COMPAD  
23 00013 R 220001 R LAC\* LIBRY  
24 00014 R 040145 R DAC LIBAD  
25 00015 R 220007 R LAC\* COMPTR /LOAD COMPTR  
26 00016 R 744010 A RCL /MULTIPLY BY 2  
27 00017 R 360007 R TAD\* COMPTR /\*3  
28 00020 R 744010 A RCL /\*6  
29 00021 R 340144 R TAD COMPAD /FIRST WORD COMPONENT  
30 00022 R 723003 A AAC 3  
31 00023 R 040150 R DAC TEMP\* /POINTS AT LIB WORD  
32 00024 R 220150 R LAC\* TEMP  
33 00025 R 060152 R DAC\* (16 /STORE IN INDEX REG 16  
34 00026 R 652000 A LMQ  
35 00027 R 500153 R AND (1777 /REL. POINTER TO LIB  
36 00030 R 340145 R TAD LIBAD  
37 00031 R 040147 R DAC SCAN\* /2ND WORD OF LIB  
38 00032 R 750000 A CLA  
39 00033 R 640602 A ILS 2 /UNPACK ORIENTATION  
40 00034 R 040146 R DAC ORIENT\*  
41 00035 R 440150 R ISZ TEMP  
42 00036 R 220150 R LAC\* TEMP  
43 00037 R 500154 R AND (1777 /UNPACK X POSITION  
44 00040 R 060005 R DAC\* X1  
45 00041 R 440150 R ISZ TEMP  
46 00042 R 220150 R LAC\* TEMP  
47 00043 R 500154 R AND (1777 /UNPACK Y POSITION  
48 00044 R 060006 R DAC\* Y1  
49 00045 R 220010 R LAC\* NOD /PIN NUMBER  
50 00046 R 723777 A AAC -1  
51 00047 R 652000 A LMQ  
52 00050 R 754000 A CLL!CLA  
53 00051 R 640323 A DIV /DIVIDE BY THREE

54 00052 R 000003 A  
55 00053 R 040007 R DAD COMPTR /SAVE REMAINDER  
56 00054 R 641002 A LACQ  
57 00055 R 746010 A CLL!RTL /MULTIPLY BY 4  
58 00056 R 723002 A AAC 2  
59 00057 R 340147 R TAD SCAN  
60 00060 R 040147 R DAC SCAN /WORD CONTAINS PAD TYPES  
61 00061 R 740030 A IAC  
62 00062 R 340007 R TAD COMPTR  
63 00063 R 040150 R DAC TEMP /CONTAINS X AND Y POSITION  
64 00064 R 200143 R LAC JMPAD  
65 00065 R 340007 R TAD COMPTR  
66 00066 R 040070 R DAC ADDR /SET UP DISPATCH TABLE JUMP  
67 00067 R 220147 R LAC\* SCAN  
68 00070 R 740040 A ADDR XX  
69 00071 R 640506 A LRS 6  
70 00072 R 640506 A LRS 6  
71 00073 R 500155 R AND (?? /UNPACK PAD TYPE  
72 00074 R 060156 R DAC\* (? /SAVE IT  
73 00075 R 220150 R LAC\* TEMP  
74 00076 R 652000 A LMQ  
75 00077 R 500153 R AND (??  
76 00100 R 040150 R DAC TEMP /Y POSITION OF PAD  
77 00101 R 750000 A CLA  
78 00102 R 640611 A LLS 11  
79 00103 R 040147 R DAC SCAN /X POSITION OF PAD  
80 00104 R 200146 R LAC ORIENT  
81 00105 R 740020 A RAR  
82 00106 R 741400 A SZL  
83 00107 R 600123 R JMP .+14  
84 00110 R 740020 A RAR /ORIENT=2 IF LINK SET 0 IF NOT  
85 00111 R 200150 R LAC TEMP /XPOS  
86 00112 R 741400 A SZL  
87 00113 R 740031 A TCA /INVERT IF ORIENT=2  
88 00114 R 652000 A LMQ  
89 00115 R 200146 R LAC ORIENT  
90 00116 R 742020 A RTR  
91 00117 R 200147 R LAC SCAN /YPOS  
92 00120 R 741400 A SZL  
93 00121 R 740031 A TCA /INVERT IF ORIENT=2  
94 00122 R 600135 R JMP .+13  
95 00123 R 740020 A RAR /ORIENT=3 IF LINK SET 1 IF NOT  
96 00124 R 200147 R LAC SCAN /XPOS  
97 00125 R 741400 A SZL  
98 00126 R 740031 A TCA /INVERT IF ORIENT=3  
99 00127 R 652000 A LMQ  
100 00130 R 200146 R LAC ORIENT  
101 00131 R 742020 A RTR  
102 00132 R 200150 R LAC TEMP /YPOS  
103 00133 R 740400 A SNL  
104 00134 R 740031 A TCA /INVERT IF ORIENT=1  
105 00135 R 360005 R TAD\* XI

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106 00136 R 060005 R DAC\* X1  
107 00137 R 641002 A LACQ  
108 00140 R 360006 R TAD\* Y1  
109 00141 R 060006 R DAC\* Y1  
110 00142 R 620002 R JMP\* SUBNOD  
111 00143 R 600071 R JMPAD JMP ADDR+1  
112 00144 R 000000 A COMPAD 0  
113 00145 R 000000 A LIBAD 0  
114 000000 A .END .  
00151 R 000151 E \*E  
00152 R 000016 A \*L  
00153 R 000777 A \*L  
00154 R 001777 A \*L  
00155 R 000077 A \*L  
00156 R 000017 A \*L  
SIZE=00157 NO ERROR LINES

## PAGE 5 SUBNOD CROSS REFERENCE

ADDR	00070	66	68*	111				
COMPAD	00144	22	29	112*				
COMPS	00000	12*	12	21				
COMPTR	00007	19*	25	27	55	62	65	
JMPAD	00143	64	111*					
LIBAD	00145	24	36	113*				
LIBRY	00001	13*	13	23				
NOD	00010	20*	49					
ORIENT	00146	40	80	89	100			
SCAN	00147	37	59	60	67	79	91	96
SUBNOD	00002	2	11	14*	110			
TEMP	00150	31	32	41	42	45	46	63
		76	85	102				73
X1	00005	17*	44	105	106			
Y1	00006	18*	48	108	109			
.DA	00151	11	15					